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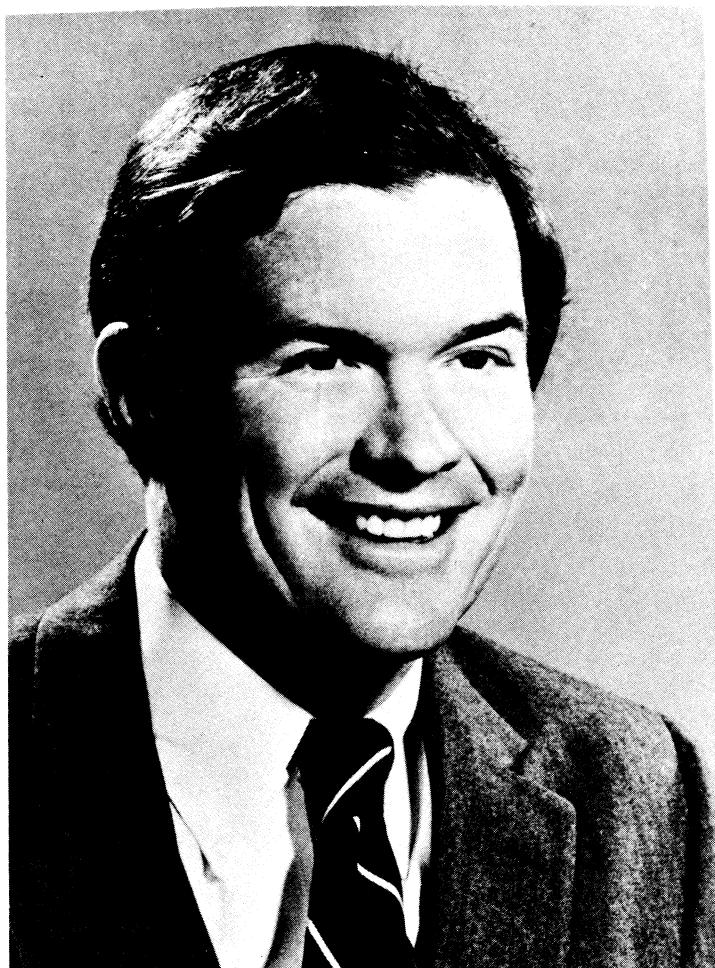
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STATISTICAL REPORT

1981



CHRISTOPHER S. BOND

Governor

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FOREWORD

Missouri Mineral production for 1981 was not the bright picture that it showed for many years. Seven of the nine mineral commodities that this department inspects showed a loss of production for 1981. Part of these losses was due to labor strikes but much of it was due to lack of demand due to a slow economy.

Asarco is progressing well on their shaft for New Lead Mine which should go into production in 1983.

St. Joe Minerals is on schedule at their shaft for a new mine to be known as Mine 31. They should be in operation by 1983.

Anschuts has slowed their progress on their Cobalt mine at Fredericktown.

Coal keeps falling in production. We are back to less coal than we produced in 1975. This is caused by a number of factors.

The Mine Training Section of this department had to let five instructors go in February 1982. These men had trained approximately 5000 miners in 1981. This program was well accepted. The cut was due to Federal funding.

Our cooperation in 1981 with both labor and management was very good.

We had another good year in mine safety. Our accident rate was about the same as 1980. We believe our safety record to be the best in the United States.

1974	1,780,114
1975	1,388,155
1976	1,403,983
1977	1,174,857
1978	1,235,744
1979	1,278,876
1980	1,074,509
1981	836,959

CLAY

Operator	Men Employed	Tonnage
Allied Chemical Corp.	5	104,488
Alsey Refractories	1	22,397
C.E. Refractories		27,349
Ceramo Company, Inc.	3	9,657
Churovich Clay Co.		3,374
Columbia Brick & Tile Co.	3	630
Joe Gilliam Mining	3	15,586
A.P. Green Refractories		187,070
Harbison-Walker Refractories	25	155,750
Hensley Mining Co.	3	23,509
Forest Johnson Clay Co.	5	37,337
Kaiser Aluminum	14	54,810
Kasten Clay Products	2	17,212
Langenberg Mining	2	11,752
Lowe's Southern Clay	75	123,068
River Cement Co.	5	42,840
A.D. Willis & Son		130

COAL

Coal production for 1981 showed a decrease of 576,579 tons compared to 1980.

MISSOURI MINERALS PRODUCTION

KIND OF MINE	TONS PRODUCED	
	1980	1981
CLAY	1,074,509	836,959
COAL	5,502,523	4,925,944
COPPER	26,142	15,384
GRANITE (Felsite)	205,742	252,254
IRON	1,439,300	1,100,000
LEAD	752,060	555,776
SHALE	1,144,436	958,652
SILICA sand . . .	1,072,951	1,130,395
ZINC	129,683	98,269

+Cubic Feet

Concentrates - Lead - Zinc - Copper

Iron - Pellets

CLAY

Clay production in Missouri in 1981 showed a decrease of 237,550 tons compared in 1980.

THE LEADING PRODUCERS OF CLAY IN 1981 WERE AS FOLLOWS:

OPERATORS	TONS PRODUCED
A.P. Green Refractories	187,070
Harbison-Walker Refractories	155,750
Lowe's Southern Clay	123,068
Allied Chemical Corp.	104,488
Kaiser Aluminum & Chemical Corp.	54,810
River Cement Co.	42,840

FOLLOWING IS THE CLAY PRODUCTION FOR THE LAST TEN YEARS:

YEAR	TONS PRODUCED
1972	1,210,279
1973	1,217,324

1974	1,780,114
1975	1,388,155
1976	1,403,983
1977	1,174,857
1978	1,235,744
1979	1,278,876
1980	1,074,509
1981	836,959

CLAY

Operator	Men Employed	Tonnage
Allied Chemical Corp.	5	104,488
Alsey Refractories	1	22,397
C.E. Refractories		27,349
Ceramo Company, Inc.	3	9,657
Churovich Clay Co.		3,374
Columbia Brick & Tile Co.	3	630
Joe Gilliam Mining	3	15,586
A.P. Green Refractories		187,070
Harbison-Walker Refractories	25	155,750
Hensley Mining Co.	3	23,509
Forest Johnson Clay Co.	5	37,337
Kaiser Aluminum	14	54,810
Kasten Clay Products	2	17,212
Langenberg Mining	2	11,752
Lowe's Southern Clay	75	123,068
River Cement Co.	5	42,840
A.D. Willis & Son		130

COAL

Coal production for 1981 showed a decrease of 576,579 tons compared to 1980.

FOLLOWING ARE THE COUNTIES WHICH LED IN COAL PRODUCTION IN 1981:

Randolph	1,612,964
Bates	1,336,379
Henry	678,019
Vernon	439,935

THE THREE LEADING COAL PRODUCERS FOR 1981 WERE:

Pittsburgh & Midway Coal Co.	1,775,932
Associated Electric Corp.	963,521
Peabody Coal Co.	678,019

THE FOLLOWING COUNTIES EMPLOYED THE MOST MEN IN THE PRODUCTION OF COAL IN 1981:

Randolph	274
Henry	251
Vernon	172
Bates	139

THE FOLLOWING IS THE COAL PRODUCTION FOR THE LAST TEN YEARS:

YEAR	TONS PRODUCED
1972	4,553,499
1973	4,654,903
1974	4,572,466
1975	5,669,671
1976	6,167,524
1977	6,626,940
1978	5,843,073
1979	6,487,445
1980	5,502,523
1981	4,925,944

COAL

Operator	Men Employed	Tonnage
Associated Electric Corp.	176	963,521
Bills Coal Company	113	222,273
Coal Creek Fuel	8	4,028
Holiday Coal Co.	21	46,868
Howard County Coal	32	79,266
Mexico Coal	19	2,449
Midwestern Mining Reclamation	59	217,662
Missouri Mining Inc.	43	178,925
Nemo Coal	90	645,415
Peabody Coal	251	678,019
Pittsburg & Midway Coal Co. (Empire Mine)	74	439,553
Pittsburg & Midway Coal Co. (Midway Mine)	139	1,336,379
Wyoming Fuel (Tri-County Mine)	19	111,586

COAL PRODUCTION BY COUNTY

COUNTY	TONS PRODUCED	FATAL ACCIDENTS
Bates	1,336,379	0
Barton	439,553	0
Henry	678,019	0
Howard	126,134	0
Putnam	178,925	0
Ralls	114,035	0
Randolph	1,612,964	0
Vernon	439,935	0

IRON

The 1981 production of Iron showed a decrease of 339,300 tons compared to 1980.

BELOW IS THE PRODUCTION RECORD OF IRON FOR THE LAST TEN YEARS:

YEAR	TONS PRODUCED
1972	2,849,291
1973	2,774,867
1974	1,936,627
1975	2,436,888
1976	2,294,779
1977	2,055,316
1978	717,769
1979	1,188,634
1980	1,439,300
1981	1,100,000

IRON

Operator	Men Employed	Tonnage
Pea Ridge Iron Ore Co.	300	1,100,000

LEAD

Lead production in Missouri for 1981 showed a decrease of 196,284 tons. Zinc showed a decrease of 31,414 tons and Copper showed a decrease of 10,758 tons compared to 1980.

BELOW IS THE PRODUCTION RECORD OF LEAD, ZINC, AND COPPER FOR THE LAST TEN YEARS:

Year	Tons Lead Produced	Tons Zinc Produced	Tons Copper Produced
1972	663,958	120,825	22,961
1973	650,317	162,505	19,280
1974	774,879	171,697	19,295
1975	703,970	144,223	27,000
1976	713,185	185,595	22,954
1977	697,417	148,742	31,063
1978	716,126	130,537	23,999
1979	719,553	130,323	31,386
1980	752,060	129,683	26,142
1981	555,776	98,269	15,384

LEAD, ZINC, AND COPPER

Operator	Tons Produced Lead	Tons Produced Zinc	Tons Produced Copper	Men Employed
St. Joe Minerals Corp.	226,436	31,058	8,374	658
Amax Lead Co. of Mo	153,590	39,587		512
Cominco American	98,450	15,797	7,010	140
Ozark Lead Co.	77,300	11,827		301

SHALE

The 1981 production of Shale showed a decrease of 185,784 tons compared to 1980.

THE FOLLOWING IS THE PRODUCTION RECORD OF SHALE FOR THE LAST TEN YEARS:

YEAR	TONS PRODUCED
1972	1,258,927
1973	1,092,964
1974	1,167,004
1975	1,051,050
1976	1,172,557
1977	1,276,884
1978	1,290,386
1979	1,353,088
1980	1,144,436
1981	958,652

SHALE

Operator	Men Employed	Tonnage
The Carter-Waters Corp.	20	79,121
Columbia Brick and Tile Co.	3	5,543
Continental Cement Co.	3	20,120
Dundee Cement Co.	39	666,933
Lehigh Portland Cement Co.	3	62,055
Missouri Portland Cement Co.	4	59,157
Midland Brick and Tile Co.	2	65,723

SILICA SAND

The 1981 production of Silica Sand showed an increase of 57,444 tons compared to 1980.

THE FOLLOWING IS THE PRODUCTION RECORD OF SILICA SAND FOR THE LAST TEN YEARS:

YEAR	TONS PRODUCED
1972	1,013,894
1973	778,458
1974	1,048,605
1975	702,694
1976	995,049
1977	1,080,200
1978	1,168,894
1979	1,175,214
1980	1,072,951
1981	1,130,395

SILICA SAND

Operator	Men Employed	Tonnage
Manley Sand Division -		
Martin Marietta Agg.	15	192,177
Master Bros. Silica Sand Co.	7	49,018
Pennsylvania Glass Sand Co.		
(Total of two mines)	72	535,229
River Cement Co.	7	80,605
UNIMIN Corp.	33	273,366

GRANITE

Operator	Men Employed	Tonnage
G.A.F. Corp.	96	252,254

FATAL ACCIDENTS IN MISSOURI MINES IN 1981

Name of Mine	Name of Operator	
Cominco American, Inc.	Cominco American, Inc.	
Address of Operator	Date of Fatality	
Bixby, MO	August 10, 1981	
Name of Deceased	Age	Occupation
Robert L. Vaughan	55	Sump Attendant
Description of Accident		

Employee was riding utility cage, cage went past collar, door was open on cage. Evidently employee thought cage was not going to stop before going into head frame and jumped at which time fatality occurred.

MINE FATALITIES IN MISSOURI

Year	Lead and Zinc Mines	Coal Mines	Other Mines	Total
1900 . . .	52	19	--	71
1901 . . .	41	15	--	56
1902 . . .	14	10	--	24
1903 . . .	13	17	--	30
1904 . . .	30	11	--	41
1905 . . .	49	11	--	60
1906 . . .	58	16	--	74
1907 . . .	42	8	3	53
1908 . . .	46	10	--	56
1909 . . .	65	21	--	86
1910 . . .	45	16	--	61
1911 . . .	33	8	3	44
1912 . . .	28	19	2	49
1913 . . .	28	9	4	41
1914 . . .	22	19	2	43
1915 . . .	41	17	2	60
1916 . . .	35	6	2	43
1917 . . .	48	14	--	62
1918 . . .	16	22	1	39
1919 . . .	11	10	1	22
1920 . . .	No report	--	--	--
1921 . . .	10	12	--	22
1922 . . .	10	6	--	16
1923 . . .	9	20	--	29
1924 . . .	12	6	--	18
1925 . . .	6	11	--	17
1926 . . .	11	7	--	18
1927 . . .	5	9	1	15
1928 . . .	8	11	2	21
1929 . . .	2	7	--	9
1930 . . .	3	10	3	16
1931 . . .	1	6	2	9
1932 . . .	2	7	1	10
1933 . . .	--	19	2	21
1934 . . .	1	13	--	14
1935 . . .	2	9	--	11
1936 . . .	3	16	1	20
1937 . . .	2	14	2	18
1938 . . .	5	7	2	14
1939 . . .	6	1	--	7
1940 . . .	3	7	--	10

Year	Lead and Zinc Mines	Coal Mines	Other Mines	Total
1941 . . .	4	8	2	14
1942 . . .	6	--	2	8
1943 . . .	4	7	2	13
1944 . . .	6	4	2	12
1945 . . .	6	5	2	13
1946 . . .	1	3	2	6
1947 . . .	7	3	6	16
1948 . . .	2	1	4	7
1949 . . .	5	2	5	12
1950 . . .	2	1	4	7
1951 . . .	2	2	5	9
1952 . . .	3	3	4	10
1953 . . .	2	--	--	2
1954 . . .	--	1	1	2
1955 . . .	1	--	2	3
1956 . . .	1	--	1	2
1957 . . .	3	1	3	7
1958 . . .	2	1	3	6
1959 . . .	4	--	--	4
1960 . . .	--	--	--	0
1961 . . .	6	1	--	7
1962 . . .	--	--	--	0
1963 . . .	--	--	--	0
1964 . . .	3	--	--	3
1965 . . .	2	--	--	2
1966 . . .	1	1	2	4
1967 . . .	2	--	--	2
1968 . . .	3	--	1	4
1969 . . .	2	--	--	2
1970 . . .	3	1	--	4
1971 . . .	3	1	--	4
1972 . . .	2	1	1	4
1973 . . .	2	--	4	6
1974 . . .	2	--	3	5
1975 . . .	--	2	2	4
1976 . . .	1	--	--	1
1977 . . .	1	--	--	1
1978 . . .	--	--	2	2
1979 . . .	1	--	--	1
1980 . . .	--	--	--	0
1981 . . .	1	2	--	3
Total	914	527	101	1,542

CAVES

An act of the 63rd General Assembly authorized and directed inspection of all Caves held open to the public and to require every Cave owner, operator or agent to provide necessary safety guard rails, bridges, ladders, entrances, platforms, walkways, safety barriers, rails, paths and other safety measures in and around any such Cave before it may be opened to the public and to file a complete and true map plan of such cave.

It shall be the duty of the Inspection Section to inspect such Caves at least once a year. The annual inspection fee will be thirty-five dollars (\$35.00).

COUNTY	NAME OF CAVE	ADDRESS
Barry	Crystal Caverns	Cassville, MO
Camden	Ozark Caverns	Osage Beach, MO
Camden	Bridal Cave	Camdenton, MO
Crawford	Onondago Cave	Leasburg, MO
Franklin	Fisher's Cave	Sullivan, MO
Frankling	Meramec Caverns	Stanton, MO
Greene	Crystal Cave	Springfield, MO
Greene	Fantastic Caverns	Springfield, MC
McDonald.	Ozark Wonder Cave	Noel, MO
McDonald	Bluff Dwellers Cave	Noel, MO
Marion	Cameron Cave	Hannibal, MO
Marion	Mark Twain Cave	Hannibal, MO
Miller	Indian Burial Cave	Osage Beach, MO
Morgan	Jacob's Cave	Versailles, MO
St. Francois	Bonne Terre Cave	Bonne Terre, MO
Stone	Talking Rock Cave	Silver Dollar City, MO
Stone	Marvel Cave	Silver Dollar City, MO
Wayne	Rebel Cave	Silva, MO
Shannon	Round Springs	Round Springs, MO
McDonald	Truitt, Cave	Lanagan, MO
Carter	Onyx Cave	Van Buren, MO

FATAL ACCIDENTS IN MISSOURI MINES IN 1981

Name of Mine	Name of Operator	
Power Mine	Peabody Coal	
Address of Operator	Date of Fatality	
Montrose, MO	February 3, 1981	
Name of Deceased	Age	Occupation
Clinton E. Morris	26	Mechanic
Description of Accident		

Employee was working on tamper table, bolts broke, table fell pinning employee underneath tamper table.

Name of Mine	Name of Operator	
Tri-County	Wyoming Fuel Employer-Dalton Builders	
Address of Operator	Date of Fatality	
Route 1, Perry, MO	May 5, 1981	
Name of Deceased	Age	Occupation
Arthur Henderson	32	Carpenter
Description of Accident		

Walking along building roof and fell through 18 inch wide opening of ridge cap.